



DEPARTMENT OF THE NAVY  
OFFICE OF THE CHIEF OF NAVAL OPERATIONS  
WASHINGTON, DC 20350-2000

W/CH

IN REPLY REFER TO

OPNAVINST 4100.11B  
OP-413  
27 SEP 1989

OPNAV INSTRUCTION 4100.11B

From: Chief of Naval Operations

Subj: NAVY ENERGY USAGE REPORTING SYSTEM (NEURS)

(a) DOD 5126.46-M of Dec 82 (NOTAL)

Encl: (1) NEURS Information and Reporting Procedures

1. Purpose. To revise policy which previously established requirements for the Defense Energy Information System (DEIS) and to provide policy and guidance for reporting and submitting the Navy Energy Usage Reporting System (NEURS) report. This revision removes DEIS - 1 reporting requirements. In addition, this instruction revises and modifies the previous instruction and should be read in its entirety.

2. Cancellation. OPNAVINST 4100.11A.

3. Discussion. The NEURS report provides a comprehensive summary of energy consumption by all afloat units, and is used by the Commanders in Chief (CINCs) of the Atlantic (CINCLANTFLT) and Pacific Fleet (CINCPACFLT) and the Commander, Military Sealift Command (COMSC) to monitor consumption and conservation within their fleets. Additionally, data derived from this report provides fleet comptrollers with the ability to track fuel budget obligations. The NEURS report is used as input to the Navy's Visibility and Management of Operating and Support Costs - Ships (VAMOSC-SHIPS) data base required by reference (a). By using the NEURS report, the Chief of Naval Operations (CNO) can obtain a summary of ships energy consumption throughout the Navy.

4. Background. NEURS provides energy data for use at all levels of Navy and Department of Defense (DOD) management. NEURS information is used to:

- a. Formulate energy policy.
- b. Identify and address energy problems.
- c. Measure energy conservation progress.
- d. Establish consumption trends by fuel type.
- e. Compute prepositioned war reserve fuel requirements.

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- f. Manage fuel funds and allocations.
- g. Support operational scheduling.
- h. Generate budget requirements and accounting reports.
- i. Assist in ship life cycle cost estimating and analysis.

5. Report. The NEURS is a monthly report providing information on the inventory, resupply, sale, and consumption of end use (non-Navy Stock Fund) petroleum products (distillate and jet fuel) aboard Navy ships. The NEURS report is prepared per enclosure (1), which consists of four sections. Section A contains information necessary for the completion and timely submission of NEURS reports. Section B details the formatting of the report message header and NEURS basic ship data requirements. Section C contains specific instructions for developing summary transaction data for each fuel type. Section D contains the table for the operational commander codes. This instruction does not include any detailed reporting requirements directed by COMSC and the Fleet CINCs; such requirements, along with amplifying instructions, should be incorporated into COMSC and Fleet CINC implementing directives.

#### 6. Responsibilities

a. Reporting Activities. All commissioned Navy ships will prepare and submit NEURS reports, except nuclear submarines and other exempted units described in Section A, paragraph 1c of enclosure (1). All Naval Fleet Auxiliary Force (NFAF) will prepare and submit NEURS reports. The Fleet CINCs/COMSC will be the action point for this report.

b. Fleet CINCs/COMSC. The appropriate Fleet CINC/COMSC will be the action addressee for NEURS reports. The Fleet CINC/COMSC is responsible for verifying data, editing reports, ensuring the correction of data entries, processing corrected reports, preparing a consolidated monthly NEURS data tape containing detailed consumption data for each ship and submitting the tape to the Navy Ships Parts Control Center (SPCC).

c. Navy Regional Data Automation Center (NARDAC). The appropriate NARDACs (Norfolk, Washington, or Pearl Harbor) will provide computer access for the processing of NEURS data submitted by the appropriate Fleet CINC/COMSC and the generation of a monthly NEURS data tape containing detailed consumption data for each ship. The data tape will be forwarded to SPCC at the following address:

Commanding Officer  
Navy Ships Parts Control Center (Code 04213)  
P. O. Box 2020  
Mechanicsburg, PA 17055-0788

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d. Ships Parts Control Center (SPCC). SPCC is responsible for receiving and storing detailed NEURS ship data tapes, in order to support preparation of the Navy's VAMOSC-SHIPS report.

e. Office of the Chief of Naval Operations (CNO). CNO (OP-04) is responsible for overall administration of the NEURS Program. This will include reviewing detailed NEURS fuel consumption figures for each ship, and comparing the consumption figures against the baseline fuel consumption figures, in order to chart progress toward the fuel conservation goals. Additionally, CNO (OP-413) is responsible for ensuring the annual NEURS report data is published.

## 7. Action

a. All ships will prepare and submit reports per enclosure (1).

b. The following timetables apply:

(1) NEURS reports will be prepared as of 2400 ZULU (GMT) hours on the last day of the calendar month.

(2) Reporting ships will submit reports to arrive at the appropriate Fleet CINC/COMSC no later than three working days after the end of the reporting period.

8. Implementation. This OPNAV Instruction becomes effective on October 1, 1989 and is to be implemented on that date.

## 9. Report and Form

a. Report Control Symbol OPNAV 4100-7 is assigned to the reporting requirement and is approved for three years from the date of this instruction.

b. DD 173-2, S/N number 0102-LF-000-1735, is available in the Navy Supply System per NAVSUP P-2002.

  
EDWARD M. STRAW

Director, Material Division

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	29E	(Destroyer (DD) 963 Class)
	29F	(Guided Missile Destroyer (DDG))
	29H	(Frigate (FF), Less 1040/1097 Class)
	29I	(Frigate (FF), 1098))
	29J	(Frigate (FF), 1040/1051 Class)
	29K	(Frigate (FF), 1052/1077 Class)
	29L	(Frigate (FF), 1078/1097 Class)
	29M	(Submarine (SS))
	29P2	(Auxiliary Research Submarine (AGSS), PAC)
	29R	(Battleships (BB))
	29AA	(Guided Missile Frigate (FFG) 7 Class and Fleet Introduction Team)
	29BB	(Guided Missile Destroyer (DDG) 993 Class Fleet Introduction Team)
	29DD	(Patrol Combatant Missile (Hydrofoil) (PHM))
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NAVY ENERGY USAGE  
REPORTING SYSTEM (NEURS)  
INFORMATION AND REPORTING PROCEDURES

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Enclosure (1)

## SECTION A

### GENERAL INFORMATION

#### 1. REPORTING REQUIREMENTS

a. The NEURS report will be submitted by all ships, except nuclear submarines, which maintain, consume, or issue any quantity of fuels listed in Section A, paragraph 4. The NEURS report is assigned report control symbol OPNAV 4100-7 and is not subject to "minimize" restrictions; NEURS reports are designated operational, not administrative.

b. The NEURS report is submitted to monitor both fuel consumption and fuel conservation. It is not intended for use in monitoring distribution of Navy Stock Fund (NSF) bulk fuel stocks. Thus, in cases where ships carry both "end use" and 'Navy Stock Fund' fuel, these ships are to report only their "end use" stocks. Ships that consume fuel directly from the Navy Stock Fund should use the appropriate fleet reporting procedures to validate accounts.

c. Specific exemptions to reporting requirements are:

(1) NEURS reports will not be submitted when operating under Emissions Control (EMCON) conditions. Data will be sent as soon as EMCON restrictions are lifted. When compatible with security requirements, reporting units will advise the applicable Fleet CINC/COMSC in advance of the anticipated delay in reporting.

(2) Once a ship has been decommissioned, there is no longer a requirement for submission of a NEURS report. The Fleet CINC/COMSC shall coordinate the final reconciliation and elimination of decommissioned ships from NEURS records and listings with appropriate addresses.

#### 2. PERIOD OF REPORT

NEURS reports are submitted to document fuel consumption for an entire one month period. When a ship transfers or "chops" between OPCONS during the month, additional reports are required. NEURS reports are submitted for that period from the beginning of the month to 2400 ZULU (GMT) hours of the day of chop. Should more than one chop occur, a report is required for each period. Reports submitted to indicate a change of operational commander do not dismiss the need for regular end-of-month reports.

Enclosure (1)

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3. CORRECTED REPORTS

a. Fleet CINC/COMSC implementing instructions should provide detailed procedures for correcting NEURS reports.

b. Each Fleet CINC/COMSC will forward only a single set of NEURS data tapes each month. Thus, corrected reports should be included in the succeeding month's data tape, rather than delaying the mailing of all data which was received on time.

4. TYPES OF FUEL TO BE REPORTED. NEURS reports will reflect inventories and transactions for the following grades of fuel:

<u>FUEL TYPE</u>	<u>DESCRIPTION</u>
F76	Fuel, Naval Distillate; including Diesel Fuel Marine and commercial distillate fuels.
JP5	Jet fuel for Navy aircraft.

NOTE: The inventories and transactions of the above grades of fuel will be reported in quantities based on amounts computed by the delivering unit or activity. In other words, fuel receipt amounts reported are to be based on those amounts appearing on issue documents, rather than on amounts determined from ships' soundings or other methods.

5. DEFINITIONSa. Consumed Underway:

F76, JP5

Fuel used in the main propulsion system underway. (Underway defined below.)

b. Consumed Not Underway:

F76, JP5

Fuel used in the main propulsion system not underway. (Not underway defined below.)



c. Consumed other: Fuel used for purposes other than those which are listed in "consumed underway" and "consumed not underway" above. The quantity to be reported in this element varies by fuel type as follows:

F76, JP5

Fuel used for other  
purposes: such as  
auxiliaries and boats.

d. Days Underway: Any day beginning at 0001 ZULU (GMT) hours during which a ship is underway on its own power for three or more hours.

e. Hours Underway: The sum of hours during the reporting period where the Engineering Department reports ready to answer all bells and lasting until the order to secure main engine(s) is received from the bridge.

f. Hours Not Underway: The sum of hours during the reporting period commencing when the order to secure main engine(s) is received from the bridge, lasting until the Engineering Department reports ready to answer all bells. During this time, the ship must be moored or anchored and continues to consume fuel from its tanks to provide for service requirements.

g. Hours Cold Iron: The sum of hours during the reporting period when the ship is moored and does not consume fuel from its tanks to provide for service requirements.

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## SECTION B

GENERAL REPORTING FORMAT

1. STANDARD MESSAGE FORM PREPARATION. A Standard Message Form (DD 173/3) is used to transmit NEURS data. The following information is included in the applicable blocks. This information modifies ACP 126 procedures.

<u>BLOCK</u>	<u>COMMENT</u>
Security Classification	ENTER "UNCLASSIFIED"
Page	Number consecutively; i.e., 1 of 1; 2 of 2
Drafter or Releaser Time	Leave Blank
Precedence-Action	ENTER "PP"
Precedence-Info	ENTER "RR" if an info addressee is listed; otherwise leave blank)
Class	ENTER "UUUU"
LMF	ENTER "TC"
CIC	ENTER "HHBW"
From	ENTER Your Ship's Name
To	ENTER "CINCLANTFLT NORFOLK VA," or "CINCPACFLT PEARL HARBOR HI," or "COMSC WASHINGTON DC" as appropriate
Info	ENTER "NSC Charleston SC//55//." As Directed By FLTCINC/COMSC
Classification	ENTER "UNCLAS//NO4100//" above subject
Subject	ENTER "NEURS REPORT"

2. NEURS PARAGRAPH 1. The text of a typical NEURS message consists of a series of data paragraphs on separate lines. Alpha and numeric coding of the data paragraphs is the framework

of the message format. Paragraphs must be numbered consecutively to prevent faulty data analysis. Data entry should begin by placing the appropriate numeric or alphabetic character followed by a period in the first two spaces on the message line. Two spaces should then be skipped with the appropriate information following in the fifth space. This procedure should be repeated for each data entry line of the NEURS report. To illustrate the procedures, NEURS basic ship data requirements are set forth below in step by step detail. Responsible personnel should refer to this section for guidance during report preparation.

<u>Line/Format</u>	<u>Comment</u>
1. XXXXXX	ENTER the number "1" followed by a period, i.e., 1. in the first two spaces of the message line. Skip two spaces, then:  ENTER "R", "V" or "N" as appropriate and add the reporting activity's UIC on the same line.
A. XXXXXX	ENTER the letter "A" followed by a period, i.e., A. in the first two spaces of the message line. Skip two spaces, then:  ENTER the last day of the reporting period: month, day, year, Example: Enter 103189 for 31 Oct 1989 on the same line.
B. X	ENTER the letter "B" followed by a period, i.e., B. in the first two spaces of the message line. Skip two spaces, then:  ENTER a single digit report number: 0 (ZERO) = original report; 1 = first correction, etc.
C. XX	ENTER the letter "C" followed by a period, i.e., C. in the first two spaces of the message line. Skip two spaces, then:  ENTER the number of days in an "underway condition" during the reporting period. Example: nine days would be reported as "09"; nineteen days would be reported as "19," etc.

- D. XX ENTER the letter "D" followed by a period, i.e., D. in the first two spaces of the message line. Skip two spaces, then:
- ENTER the number of hours "underway" during the reporting period. (See definition on "Underway" in Section A.)
- E. XXX ENTER the letter "E" followed by a period, i.e., E. in the first two spaces of the message line. Skip two spaces, then:
- ENTER the number of hours "not underway" during the reporting period that the ship was required to operate her plant.
- F. XXX ENTER the letter "F" followed by a period, i.e., F. in the first two spaces of the message line. Skip two spaces, then:
- ENTER the number of hours "cold iron" during the reporting period.
- NOTE: The number of hours "underway," "not underway," and "cold iron" must equal the total number of hours in the reporting period. (i.e., 720 hrs for a 30-day month; 744 hrs for a 31-day month.)
- G. XX ENTER the letter "G" followed by a period, i.e., G. in the first two spaces of the message line. Skip two spaces, then:
- ENTER the appropriate two digit operational commander code for the reporting period. (See table in Section D)

3. NEURS FUEL USAGE PARAGRAPH 2

a. The following paragraphs are used to report F76 and JP5 fuel data. Each paragraph must be formatted as illustrated in the guide below on separate lines. If a given product is not carried, it should not be reported. Paragraph numbers are used to introduce each fuel type. These paragraphs should follow immediately after paragraph one, i.e., 1. Paragraph numbers are used to key the computer that a new fuel type is being introduced. Regardless of the fuel type being introduced, paragraphs should be numbered consecutively. If any NEURS data entry is not applicable, a zero (i.e., "0") should be entered. Fuel quantities should be entered in whole numbers (gallons).

b. Summary Transaction Reporting (End use, non-NSF fuel only)

<u>Line</u>	<u>COMMENT</u>
2. F76	ENTER "F76"
A. XXXXXXXX	ENTER beginning inventory, in gallons. The quantity reported as beginning inventory must equal the quantity reported as ending inventory on the previous month's report. For ships with Navy Stock Fund fuel on board, the inventory being reported <u>should not</u> include the Navy Stock Fund fuel quantity.
B. XXXXXXXX	ENTER quantity of F76 received from all DOD sources, in gallons. NOTE: In the case of ships with Navy Stock Fund fuel on board, ships report "end use" fuel only. This note is also applicable to lines C through M.
C. XXXXXXXX	ENTER quantity of F76 received from all commercial sources, in gallons.
D. XXXXXXXX	ENTER quantity of F76 received from foreign military and miscellaneous sources, in gallons.
E. XXXXXXXX	ENTER quantity of F76 "consumed underway," in gallons.
F. XXXXXXXX	ENTER quantity of F76 "consumed not underway," in gallons.
G. XXXXXXXX	ENTER quantity of F76 "consumed other," in gallons.

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- H. XXXXXXXX ENTER quantity of F76 issued to U.S. Navy Ships (other than fleet oilers), in gallons.
- I. XXXXXXXX ENTER quantity of F76 transferred (material turned into stores) to defense fuel support points, Navy shore activities and fleet oilers, in gallons.
- J. XXXXXXXX ENTER quantity of F76 issued to the Army, Air Force, Marine Corps, Coast Guard, and other miscellaneous DOD activities, in gallons.
- K. XXXXXXXX ENTER quantity of F76 issued or transferred to foreign military activities, foreign and domestic commercial activities, and any other non-DOD activity, in gallons.
- L. XXXXXXXX ENTER quantity of F76 gains or losses by inventory, in gallons.
- NOTE: Losses by inventory will be indicated by enclosing the data entry in parentheses. This element includes both determinable and undeterminable (operational) losses and gains. Explanatory comments for losses will be provided IAW Fleet Commander Instructions.
- M. XXXXXXXX ENTER actual ending inventory, in gallons. (See note from line B.)

c. If F76 is the only fuel type carried, enter "END SUMMARY" on next line and report is complete. If other fuels are also carried, proceed to next paragraph.

d. Summary Transaction Reporting (End use, non-NSF fuel only)

<u>Line</u>	<u>COMMENT</u>
3. JP5	ENTER "JP5"
A. XXXXXXXX	ENTER beginning inventory, in gallons. The quantity reported as beginning inventory must equal the quantity reported as ending inventory on the previous month's report. For ships with Navy Stock Fund Fuel on board, the inventory being reported <u>should not</u> include the NSF fuel quantity.
B. XXXXXXXX	ENTER quantity of JP5 received from all DOD sources, in gallons. NOTE: In case of ships with Navy Stock Fund fuel on board, ships will report "end use" fuel only. This note is also applicable to lines C through O.)
C. XXXXXXXX	ENTER quantity of JP5 received from all commercial sources, in gallons.
D. XXXXXXXX	ENTER quantity of JP5 received from foreign military and miscellaneous sources, in gallons.
E. XXXXXXXX	ENTER quantity of JP5 "consumed underway" (ship propulsion), in gallons.
F. XXXXXXXX	ENTER quantity of JP5 "consumed not underway" (ship propulsion), in gallons.
G. XXXXXXXX	ENTER quantity of JP5 "consumed other" in gallons.
H. XXXXXXXX	ENTER quantity of JP5 issued to Navy aircraft, in gallons.
I. XXXXXXXX	ENTER quantity of JP5 issued to Marine Corps aircraft, in gallons.
J. XXXXXXXX	ENTER quantity of JP5 issued to U.S. Navy ships (other than fleet oilers), in gallons.
K. XXXXXXXX	ENTER quantity of JP5 transferred (material turned into stores) to defense fuel support points, Navy shore activities, and fleet oilers, in gallons.

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- L. XXXXXXXX ENTER quantity of JP5 issued to Army, Air Force, Marine Corps (other than aviation units), Coast Guard, and other miscellaneous DOD activities, in gallons. This entry must not include fuel reported in lines G, H, or I above.)
- M. XXXXXXXX ENTER quantity of JP5 issued or transferred to foreign military activities, foreign and domestic commercial activities, and any other non-DOD activity, in gallons.
- N. XXXXXXXX ENTER quantity of JP5 losses or gains by inventory, in gallons.
- NOTE: Losses by inventory will be indicated by enclosing the data entry in a parenthesis. This element includes both determinable and undeterminable (operational) losses and gains. Explanatory comments for losses will be provided IAW Fleet Commander Instructions.
- O. XXXXXXXX ENTER actual ending inventory, in gallons.
- e. If JP5 is the last grade of fuel carried, enter END SUMMARY.



SECTION C  
REPORTING FORMAT GUIDE

UNCLASSIFIED

O1 O1 PP RR UUUU TC HHBW

OPERATIONAL

FM: USS (OR USNS)

TO: CINCPACFLT PEARL HARBOR HI; CINCLANTFLT NORFOLK VA;  
OR COMSC WASHINGTON DC, AS APPROPRIATE

INFO: "NSC Charleston SC//55// AND OTHER INFO ADDEES  
AS DIRECTED BY FLTCINC/COMSC

UNCLAS //NO4100//

SUBJ: NEURS REPORT

1.	REPORTING ACTIVITY UIC
A.	MONTH/DAY/YEAR/(MM/DD/YY)
B.	REPORT NUMBER
C.	DAYS UNDERWAY
D.	HOURS UNDERWAY
E.	HOURS NOT UNDERWAY
F.	HOURS COLD IRON
G.	OPERATIONAL COMMANDER CODE DURING REPORTING PERIOD
*. F76	FUEL TYPE (If not applicable, proceed to next appropriate fuel type)

\* Paragraph number 2 used to introduce fuel type

- A. BEGINNING INVENTORY
- B. RECEIVED FROM ALL DOD SOURCES
- C. RECEIVED FROM FOREIGN AND  
DOMESTIC COMMERCIAL SOURCES
- D. RECEIVED FROM FOREIGN  
MILITARY AND MISCELLANEOUS  
SOURCES
- E. CONSUMED UNDERWAY
- F. CONSUMED NOT UNDERWAY
- G. CONSUMED OTHER
- H. ISSUED TO U. S. NAVY SHIPS  
(OTHER THAN FLEET OILERS)
- I. TRANSFERRED (MATERIAL TURNED  
INTO STORES)
- J. ISSUED TO OTHER DOD ACTIVITIES
- K. ISSUED OR TRANSFERRED TO  
FOREIGN MILITARY ACTIVITIES,  
FOREIGN AND DOMESTIC COMMERCIAL  
ACTIVITIES AND OTHER NON-DOD
- L. GAINS OR (LOSSES) BY INVENTORY
- M. ACTUAL ENDING INVENTORY

(IF F76 IS ONLY FUEL TYPE CARRIED, ENTER END SUMMARY, WE CARRY NO JP5 ON NEXT LINE; AND REPORT IS COMPLETE. IF JP5 IS ALSO CARRIED, PROCEED TO NEXT PARAGRAPH.)

\* Paragraph numbers (i.e., 2 and 3) are used to introduce each fuel type. Regardless of fuel type introduced, paragraphs should be numbered consecutively.

- \* JP5 FUEL TYPE (IF NOT APPLICABLE,  
PROCEED TO NEXT APPROPRIATE  
FUEL TYPE)
- A. BEGINNING INVENTORY
- B. RECEIVED FROM ALL DOD SOURCES
- C. RECEIVED FROM FOREIGN AND  
DOMESTIC COMMERCIAL SOURCES
- D. RECEIVED FROM FOREIGN MILITARY  
AND MISCELLANEOUS SOURCES
- E. CONSUMED UNDERWAY
- F. CONSUMED NOT UNDERWAY
- G. CONSUMED OTHER
- H. ISSUED TO NAVY AIRCRAFT
- I. ISSUED TO MARINE CORPS AIRCRAFT
- J. ISSUED TO U.S. NAVY SHIPS (OTHER  
THAN FLEET OILERS)
- K. TRANSFERRED (MATERIAL TURNED  
INTO STORES)
- L. ISSUED TO OTHER DOD ACTIVITIES
- M. ISSUED OR TRANSFERRED TO FOREIGN  
MILITARY ACTIVITIES, FOREIGN AND  
DOMESTIC COMMERCIAL ACTIVITIES  
AND OTHER NON-DOD
- N. GAINS OR (LOSSES) BY INVENTORY
- O. ACTUAL ENDING INVENTORY

END SUMMARY

(IF JP5 IS ONLY FUEL TYPE CARRIED ENTER END SUMMARY)

\* Paragraph number 3 used to introduce fuel type

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SECTION D

OPERATIONAL COMMANDER CODES

00	ALL MSC SHIPS
01	INDIAN OCEAN SHIPS
03	SURFPAC SHIPS
05	ALL RESERVE SHIPS (REGARDLESS OF WHERE DEPLOYED)
07	SEVENTHFLT (WESTPAC) SHIPS
08	SECONDFLT (NON-DEPLOYED) SHIPS
09	SIXTHFLT (MED) SHIPS
17	DEPLOYED TO MIDEASTFOR SHIPS
21	SHIPS IN SCHEDULED MAINTENANCE PERIOD (SRA/ROH/PMA)
27-37	(UNASSIGNED VALID OPCONS)